

## IN THE CLAIMS

Page 6, line 1, change "Patent Claims" to --What is claimed is:--.

Claims 1-8 (cancelled).

9. (New) An optical system with reduced chromatic aberration, for use in microscopes for imaging the light source in the aperture diaphragm of a condenser, comprising:

a collector assembly; and

an apochromatizing adapter assembly which is associated with the collector assembly.

10. (New) The optical system according to claim 9, wherein the adapter assembly has three lenses, wherein one lens having negative power is arranged between two lenses having positive power.

11. (New) The optical system according to claim 10, wherein the three lenses are separated from one another by air gaps, and the lens surfaces facing the air gaps have identical radii.

12. (New) The optical system according to claim 10, wherein the optical characteristics of the two lenses having positive power are identical.

13. (New) The optical system according to claim 9, wherein the collector assembly has two lenses.

14. (New) The optical system according to claim 9, wherein means are provided for detachably connecting the adapter assembly to interchangeable collector assemblies which have different optical characteristics.

15. (New) The optical system according to claim 9, designed for wavelengths

in the range of 365 nm to 644 nm.

16. (New) The optical system according to claim 9, further comprising the following parameters:

Assembly	Surface	Radius r	Thickness d	Refractive index $n_e$	Abbe Number $v_e$	Diameter
Adapter	a	130	5	1.552320	63.45999	27.38334
	b	-24	0.2			27.38454
	c	-24	3	1.647690	33.849998	26.79942
	d	24	0.2			26.76505
	e	24	5	1.552320	63.459999	27.77575
	f	-130	10			27.75754
Collector	g	25.119	5.8	1.522490	59.480000	28.39285
	h	-54.247	0.3			28.24928
	i	12.232	7.2	1.458464	67.821443	22.63967
	k	141.25				22.56214